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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Frank Y. Xu et al.
App. No.: 10/763,885 GPAU: 1752
Filing Date: 01/23/2004 Examiner: Amanda C. Walke
Dkt. No.: P113-55-03 Conf. No.: 6002
For: MATERIALS AND METHODS FOR IMPRINT LITHOGRAPHY

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The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
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to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicant(s) does not believe that any additional fees are due, but if the Commissioner believes additional fees are due,

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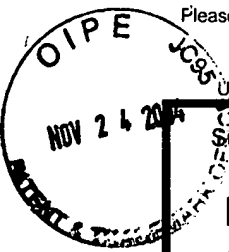
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Date: 11/22/04

Respectfully Submitted,



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Sheet

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of

17

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Application Number	10/763,885
Filing Date	01/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1752
Examiner Name	Amanda C. Walke
Attorney Docket Number	P113-55-03

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	B1	3,527,062		Bilinski et al.	09-08-1970	
	B2	3,783,520		King	01-08-1974	
	B3	3,807,027		Heisler	04-30-1974	
	B4	3,807,029		Troeger	04-30-1974	
	B5	3,811,665		Seelig	05-21-1974	
	B6	4,062,600		Wyse	12-13-1977	
	B7	4,070,116		Frosch et al.	01-24-1978	
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	B9	4,119,688		Hiraoka	10-10-1978	
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	B11	4,155,169		Drake et al.	05-22-1979	
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	B14	4,267,212		Sakawaki	05-12-1981	
	B15	4,326,805		Feldman et al.	04-27-1982	
	B16	4,337,579		De Fazio	07-06-1982	
	B17	4,355,469		Nevins et al.	10-26-1982	
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	B19	4,426,247		Toshiakai et al.	01-17-1984	
	B20	4,440,804		Milgram	04-03-1984	
	B21	4,451,507		Beltz et al.	05-29-1994	
	B22	4,507,331		Hiraoka	03-02-1985	
	B23	4,544,572		Sandvig et al.	10-01-1985	
	B24	4,552,832		Blume et al.	11-12-1985	
	B25	4,552,833		Ito et al.	11-12-1985	
	B26	4,600,309		Fay	07-15-1986	
	B27	4,610,442		Oku et al.	09-09-1986	
	B28	4,657,845		Frechet et al.	04-04-1987	
	B29	4,692,205		Sachdev et al.	09-08-1987	
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	B31	4,707,218		Giammarco et al.	11-17-1987	
	B32	4,737,425		LIN et al.	04-12-1988	
	B33	4,763,886		Takei	08-16-1988	
	B34	4,808,511		Holmes	02-28-1989	
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Attorney Docket Number	P113-55-03				
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		Number	Kind Code ² (if known)			
	B35	4,826,943		Ito et al.	05-02-1989	
	B36	4,846,931		Gmitter et al.	07-11-1989	
	B37	4,848,911		Uchida et al.	07-18-1989	
	B38	4,857,477		Kanamori	08-15-1989	
	B39	4,883,561		Gmitter et al.	11-28-1989	
	B40	4,891,303		Garza et al.	01-02-1990	
	B41	4,908,298		Hefferon et al.	03-13-1990	
	B42	4,919,748		Bredbenner et al.	04-24-1990	
	B43	4,921,778		Thackeray et al.	05-01-1990	
	B44	4,929,083		Brunner	05-29-1990	
	B45	4,931,351		McColgin et al.	06-05-1990	
	B46	4,959,252		Bonnebat et al.	09-25-1990	
	B47	4,964,945		Calhoun	10-23-1990	
	B48	4,976,818		Hashimoto et al.	12-11-1990	
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	B50	4,999,280		Hiraoka	03-12-1990	
	B51	5,053,318		Gulla et al.	10-01-1991	
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	B54	5,072,126		Progler	12-10-1991	
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	B59	5,126,006		Cronin et al.	06-30-1992	
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	B64	5,173,393		Sezi et al.	12-22-1992	
	B65	5,179,863		Uchida et al.	01-19-1993	
	B66	5,198,326		Hashimoto et al.	03-30-1993	
	B67	5,204,739		Domenicali	04-20-1993	
	B68	5,206,983		Guckel et al.	05-04-1993	
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			Examiner Name	Amanda C. Walke	
Sheet	3	of	17	Attorney Docket Number	P113-55-03

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	B69	5,212,147		Sheats	05-18-1993	
	B70	5,234,793		Sebald et al.	08-10-1993	
	B71	5,240,550		Boehnke et al.	08-31-1993	
	B72	5,240,878		Fizsimmons et al.	08-31-1993	
	B73	5,242,711		DeNatale et al.	09-07-1993	
	B74	5,244,818		Jokerst et al.	09-14-1993	
	B75	5,259,926		Kuwabara et al.	09-09-1993	
	B76	5,270,984	A	Mine	12-14-1993	
	B77	5,277,749		Griffith et al.	01-11-1994	
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	B87	5,376,810		Hoenk et al.	12-27-1994	
	B88	5,380,474		Rye et al.	01-10-1995	
	B89	5,392,123		Marcus et al.	02-21-1995	
	B90	5,417,802		Obeng	05-23-1995	
	B91	5,421,981		Leader et al.	06-06-1995	
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	B94	5,425,964		Southwell et al.	06-20-1995	
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	B96	5,439,766		Day et al.	08-08-1995	
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	B98	5,453,157		Jeng	09-26-1995	
	B99	5,458,520		DeMercurio et al.	10-17-1995	
	B100	5,468,542		Crouch	11-21-1995	
	B101	5,480,047		Tanigawa et al.	01-02-1996	
		INTENTIONAL	BLANK			
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		Application Number	10/763,885		
		Filing Date	01/23/2004		
		First Named Inventor	Xu et al.		
		Group Art Unit	1752		
		Examiner Name	Amanda C. Walke		
		Attorney Docket Number	P113-55-03		
Sheet	4	of	17		

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		Number	Kind Code ² (if known)			
	B102	5,515,167		Ledger et al.	05-07-1996	
	B103	5,523,878		Wallace et al.	06-04-1996	
	B104	5,527,662		Hashimoto et al.	06-18-1996	
	B105	5,545,367		Bae et al.	08-13-1996	
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	B107	5,633,505		Chung et al.	05-27-1997	
	B108	5,654,238		Cronin et al.	08-05-1997	
	B109	5,670,415		Rust	09-23-1997	
	B110	5,700,626		Lee et al.	12-23-1997	
	B111	5,723,176		Keyworth et al.	03-03-1998	
	B112	5,724,145		Kondo et al.	03-03-1998	
	B113	5,725,788		Maracas et al.	03-10-1998	
	B114	5,736,424		Prybyla et al.	04-07-1998	
	B115	5,743,998		Park	04-28-1998	
	B116	5,747,102		Smith et al.	05-05-1998	
	B117	5,753,014		Van Rijn	05-19-1998	
	B118	5,760,500		Kondo et al.	06-02-1998	
	B119	5,776,748		Singhvi et al.	07-07-1998	
	B120	5,779,799		Davis	07-14-1998	
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	B127	5,907,782		Wu	05-25-1999	
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	B129	5,926,690		Toprac et al.	07-20-1999	
	B130	5,937,758		Maracas et al.	08-17-1999	
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	B132	5,948,219		Rohner	09-07-1999	
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	B135	6,033,977		Gutsche et al.	03-07-2000	
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	B136	6,035,805		Rust	03-14-2000	
	B137	6,038,280		Rossiger et al.	03-14-2000	
	B138	6,046,056		Parce et al.	04-04-2000	
	B139	6,051,345		Huang	04-18-2000	
	B140	6,074,827		Nelson et al.	06-13-2000	
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	B149	6,168,845		Fontana Jr. et al.	01-02-2001	
	B150	6,180,239	B1	Whitesides et al.	01-30-2001	
	B151	6,188,150	B1	Spence	02-13-2001	
	B152	6,204,922	B1	Chalmers	03-20-2001	
	B153	6,218,316	B1	Marsh	04-17-2001	
	B154	6,245,581	B1	Bonser et al.	06-12-2001	
	B155	6,274,294	B1	Hines	08-14-2001	
	B156	6,326,627	B1	Putvinski et al.	12-04-2001	
	B157	6,329,256	B1	Ibok	12-11-2001	
	B158	6,355,198	B1	Kim et al.	03-12-2002	
	B159	6,387,783		Furukawa et al.	05-14-2002	
	B160	6,388,253	B1	Su	05-14-2002	
	B161	6,391,798	B1	DeFelice et al.	05-21-2002	
	B162	6,411,010	B1	Suzuki et al.	06-25-2002	
	B163	6,447,919	B1	Brown et al.	09-10-2002	
	B164	6,455,411	B1	Jiang et al.	09-24-2002	
	B165	6,467,761	B1	Amatucci et al.	10-22-2002	
	B166	6,482,742	B1	Chou	11-19-2002	
	B167	6,489,068	B1	Kye	12-03-2002	
	B168	6,495,624	B1	Brown, James F.	12-17-2002	
	B169	6,514,672	B2	Young et al.	02-04-2003	
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	B171	6,541,360	B1	Plat et al.	04-01-2003	
	B172	6,561,706		Singh et al.	05-13-2003	
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	B202	2004/0036201	A1	Chou et al.	02-26-2004	
	B203	2004/0053146	A1	Sreenivasan et al.	03-18-2004	
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Sheet

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of

17

Application Number

10/763.885

Filing Date

01/23/2004

First Named Inventor

Xu et al.

Group Art Unit

1752

Examiner Name

Amanda C. Walke

Attorney Docket Number

P113-55-03

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				Filing Date	01/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1752
				Examiner Name	Amanda C. Walke
				Attorney Docket Number	P113-55-03
Sheet	8	of	17		

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				Filing Date	01/23/20904
				First Named Inventor	Xu et al.
				Group Art Unit	1752
				Examiner Name	Amanda C. Walke
Sheet	9	of	17	Attorney Docket Number	P113-55-03

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/	B249	Abstract of Japanese Patent 02-24848, January 26, 1990	
/	B250	Abstract of Japanese Patent 02-92603, August 12, 2004	
/	B251	Abstract of Japanese Patent 55-88332, April 14, 2004	
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				Examiner Name	Amanda C. Walke
(use as many sheets as necessary)				Attorney Docket Number	P113-55-03
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/763,885
				Filing Date	01/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1752
				Examiner Name	Amanda C. Walke
Sheet	11	of	17	Attorney Docket Number	P113-55-03

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				First Named Inventor	Xu et al.
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				Examiner Name	Amanda C. Walke
Sheet	12	of	17	Attorney Docket Number	P113-55-03

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/	B287	LIN, "Multi-Layer Resist Systems.", Introduction to Microlithography, February 14, 1983, pp. 287-349.		
/	B288	LUCAS AEROSPACE, Free-Flex ® Pivot Catalog, January 1, 1999		
/	B289	MANSKY et al., "Large-Area Domain Alignment in Block Copolymer Thin Films Using Electric Fields.", Macromolecules, June 9, 1998, Vol. 31, No. 13, pp. 4399-4401.		
/	B290	MCMACKIN et al., "A Method of Creating a Turbulent Flow of Fluid between a Mold and a Substrate," U.S. Patent Application 10/898,034, Filed with USPTO July 23, 2004.		
/	B291	MCMACKIN et al., "A System of Creating a Turbulent Flow of Fluid between a Mold and a Substrate," U.S. Patent Application 10/898,037, Filed with USPTO July 23, 2004.		
/	B292	MCMACKIN et al., Single Phase Fluid Imprint Lithography Method," U.S. Patent Application 10/677,639, Filed with USPTO Oct. 16, 2003.		

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/	B303	PAROS et al., "How to design Flexure Hinges.", Machine Design, November 25, 1965, pp 151-156.	

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/	B305	PERNETTE et al., "Design of Parallel Robots in Microbotics.", Robotica, January 1, 1997, Vol. 15, pp 417-420.	
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/	B315	SREENIVASAN et al., "An Imprint Lithography System to Produce a Light to Impinge upon and Polymerize a Liquid in Superimposition with Template Overlay Marks," U.S. Patent Application 10/864,214 Filed with USPTO June 9, 2004.	
/	B316	SRINIVASAN et al., "Alkyltrichlorosilane-Based Self-Assembled Monolayer Films for Stiction Reduction in Silicon Micromachines," Journal of Microelectromechanical Systems, June 1, 1998, Vol. 7, No. 2, p. 252-260.	
/	B317	STEWART, "A Platform With Six Degrees of Freedom," Proc Instn Mech Engrs, May 28, 1965, Vol 180, Pt1, No. 15, pp. 371-378.	
/	B318	STIX, "Getting More from Moores", Scientific American	
/	B319	SUNG et al., "Abstract of Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication", Elsevier Science B.V., July 1, 2003, Vol. 255, no. 7	
/	B320	SUNG et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication.", Elsevier Science B.V., July 1, 2003, Vol. 255, No. 7, pp. 808-818.	
/	B321	TAJBAKSHI et al., "Three-Degree-of-Freedom Optic Mount for Extreme Ultraviolet", American Society for Precision Engineering, January 1, 1998, pp. 359-362.	
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/	B323	TOMITA et al., "A 6-axes Motion Control Method for Parallel-Linkage-Type Fine Motion Stage.", JSPE-58-04, pp. 118-124.	
/	B324	Translation of Japanese Patent 02-24848, January 26, 1990.	
/	B325	Translation of Japanese Patent 02-92603, April 3, 1990.	

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				Application Number	10/763,885
				Filing Date	01/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1752
				Examiner Name	Amanda C. Walke
Sheet	16	of	17	Attorney Docket Number	P113-55-03

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/	B326	TRILOGY SYSTEMS, "Linear Motors 310.", www.trilogysystems.com, January 1, 2001.	
/	B327	US Application No. 10/375,817, Filed 02-27-2003, NGUYEN et al., "Method to Reduce Adhesion between a Polymerizable Layer and a Substrate Employing a Flourine-Containing Layer."	
/	B328	US Application No. 10/463,396, Filed 06-17-2003, CHOI et al., "Method to Reduce Adhesion Between a Conformable Region and a Pattern of a Mold."	
/	B329	US Application No. 10/735,110, Filed 12-12-2003, NIMMAKAYALA et al., "Magnification Correction Employing Out-of-Plane Distortion of a Substrate."	
/	B330	US Application No. 10/785,248, Filed 02-24-2004, CHOI et al., "A Method to Control the Relative Position Between a Body and a Surface."	
/	B331	US Application No. 10/788,700, Filed 02-27-2004, SREENIVASAN et al., "Full-Wafer or Large Area Imprinting with Multiple Separated Sub-Fields for High Throughput Lithography."	
/	B332	US Application No. 10/806,956, Filed 03-23-2003, CHOI et al., "An Apparatus to Control Displacement of a Body Spaced-Apart from a Surface."	
/	B333	US Applications No. 10/194,991, Filed 07-11-2002, SREENIVASAN et al., "Step and Repeat Lithography Processes."	
/	B334	US Applications No. 10/687,519, Filed 10-16-2003, NGUYEN et al., "Low Surfaced Energy Template."	
/	B335	VANDERBILT UNIVERSITY OFFICE OF TRANSFER TECHNOLOGY; VU9730 Specifications for Improved Flexure Device; 2001, 25, 192-199.	
/	B336	WANG et al., "Passive Compliance versus Active Compliance in Robot-Based Automated Assembly Systems.", Industrial Robot, January 1, 1998, Vol. 25, No. 1, pp. 48-57.	

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	B337	WILLIAMS et al., "Six Degree of Freedom Mag-Lev Stage Development.", SPIE, January 1, 1997, Vol. 3051, pp. 856-867.	
	B338	WILLSON et al., "Step and Flash Imprint Lithography", U.S. Patent Application 10/806,051, Filed with USPTO March 22, 2004.	
	B339	WU, "Large Area High Density Quantized Magnetic Disks Fabricated Using Nanoimprint Lithography.", J. Vac. Sci. Technol., November 1, 1998, B 16(6), pp. 3825-3829.	
	B340	XIA et al., "Soft Lithography.", Annu Rev. Mater Sci. 1998 28: 153-184	
	B341	XIA et al., "Soft Lithography.", Angew. Chem. Int. Ed., January 1, 1998, pp. 551-575.	
	B342	XU et al., "Materials for Imprint Lithography," U.S. Patent Application 10/784,911, Filed with USPTO Feb. 23, 2004.	
	B343	XU et al., "Methods for Fabricating Patterned Features Utilizing Imprint Lithography,," U.S. Patent Application 10/694,284, Filed with USPTO Oct., 27, 2003.	

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